CRM LESSON PLAN REPORT

PERFORM MAINTENANCE ON THE MACHINE GUN 7.62MM M240B WITH EQUIPMENT
101-92Y10D11 / 05.0 ©

Approved
06 Sep 2016

Effective Date: 06 Sep 2016

SCOPE:

None

SECTION I. ADMINISTRATIVE DATA

All Course Masters/POIs Including This Lesson

Courses

Course Number	Version	Title	Phase	Status
551-92Y10	05.0	Unit Supply Specialist	N/A	Analysis

POIs

POI Number	Version	Title	Phase	Status
551-92Y10	05.0 ©	Unit Supply Specialist	0	Analysis

Task(s) Taught(*) or Supported

Task Number	Task Title	Status
Individual		
101-92Y-1409 (*)	Perform Organizational (Unit) Maintenance on Small Arms	Approved

Reinforced Task(s)

Task Number	Task Title	Status
101-92Y-1013	Maintain Unit Supply Files	Approved
101-92Y-1301	Control Weapons and Ammunition in the Arms Room	Approved

Knowledge

Knowledge Id	Title	Taught	Required
None			

Skill

Skill Id	Title	Taught	Required
None			

Administrative/ Academic Hours

The administrative/academic (50 min) hours required to teach this lesson are as follows:

Academic	Resident Hours / Methods		
Yes	1 hr	15 mins	Hardware-Oriented Test
Yes	4 hrs	10 mins	Demonstration
Yes	0 hrs	15 mins	Reflective Discussion
Yes	1 hr	30 mins	Practical Exercise (Hands-On/Written)
Yes	0 hrs	30 mins	Discussion (Small or Large Group)
Total Hours(50 min):	8 hrs	0 mins	

Instructor Action Hours

The instructor action (60 min) hours required to teach this lesson are as follows:

Hours/Actions		
0 hrs	15 mins	Classroom Breakdown
0 hrs	15 mins	Classroom Setup
1 hrs	0 mins	Logistics Support – Weapon
0 hrs	25 mins	Student Counseling
1 hrs	0 mins	Student Re-test
0 hrs	25 mins	Student Re-train
Total Hours (60 min):	3 hrs	20 mins

Test Lesson(s)

Hours	Lesson Number Version	Lesson Title
None		

Prerequisite Lesson(s)

Hours	Lesson Number Version	Lesson Title
None		

Training Material Classification

Security Level: This course/lesson will present information that has a Security Classification of: U - Unclassified.

Foreign Disclosure Restrictions

FD1. This training product has been reviewed by the training developers in coordination with the Fort Lee, Virginia foreign disclosure officer. This training product can be used to instruct international military students from all approved countries without restrictions.

References

Number	Title	Date
AR 25-400-2	THE ARMY RECORDS INFORMATION MANAGEMENT SYSTEM (ARIMS)	02 Oct 2007
DA PAM 750-8	The Army Maintenance Management System (TAMMS) Users Manual	22 Aug 2005
TM 9-1005-313-10	OPERATORS MANUAL FOR MACHINE GUN, 7.62MM, M240 (NSN 1005-01-025-8095) M240B (1005-01-412-3129) M240C (1005-01-085-4758) M240D (1005-01-418-6995) M240E1 (1005-01-252-4288) M240G (1005-01-359-2714) M240N (	15 Nov 2002
TM 9-1005-313-23&P	UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL (INCLUDING DEPOT MAINTENANCE REPAIR PARTS) FOR MACHINE GUN, 7.62MM, M240 (NSN 1005-01-025-8095);MACHINE GUN, 7.62MM. M240B (1005-01-412-3129);MACHINE GUN, 7.62	14 Dec 2007

Student Study Assignment

None

Instructor Requirements

Primary Instructor and Assistant Instructor(s)

Support Personnel Requirements

Armorer

Computer System Analyst

Additional Support Personnel Requirements

Name	Student Ratio	Qty	Man Hours
Armorer	0:0	1	1.0
Computer System Analyst	0:0	1	8.0

Equipment Required for Instruction

ID - Name	Student Ratio	Instructor Ratio	Spt	Qty	Exp
1005-01-412-3129 - Machine Gun, 7.62 Millimeter: M240B	1:1	0:0	No	1	No
1005-01-503-0141 - Mount, Machine Gun: M192	1:6	0:0	No	1	No
5180-00-357-7770 - Tool Kit, Repairman's, Small Arms	1:10	0:0	No	1	No
7021-01-C14-3190 - Computer, Micro Lap-Top Portable AC: M4500 Dell	0:0	0:0	Yes	2	No
7021-01-D01-0269 - PC Tablet, Data Entry: IPAD 2 WIFI 64GB Apple	1:1	0:0	No	1	No
7025-01-C11-4208 - Printer, Daisy Wheel/Dot Matrix/:2335DN MFP Dell	0:0	0:0	No	1	No
7050-01-C14-4309 - Interactive Pen Display: ID422W Smart	0:0	0:0	No	1	No
7490-01-T00-0291 - Card Programmer: RFC-03G Turning Technologies	1:1	0:0	No	0	No
7490-01-T00-0292 - Card Programmer: XRC-R02 Turning Technologies	1:30	0:0	No	0	No

(Note: Asterisk before ID indicates a TADSS.)

Materials Required

Instructor Materials:

a. Lesson Plan

b. Practical Exercise (PE)

c. Practical Exercise Solution

d. Required Publications

Student Materials:

a. Student Handout (Blank Forms)

b. Practical Exercise

c. Required Publications

d. Pen or pencil

e. Safety equipment (Goggles)

Classroom, Training Area, and Range Requirements

ID - Name	Quantity	Student Ratio	Setup Mins	Cleanup Mins
17135-3000 Laboratory Instructional Building, 3000 Square Foot		1:30	20	30

Ammunition Requirements

DODIC - Name	Exp	Student Ratio	Instruct Ratio	Spt Qty
A159 - Dummy Cartridge, 7.62 Millimeter, M172 (Linked)	N	5:1	0:0	

Instructional Guidance/ Conduct of Lesson

NOTE: Before presenting this lesson, instructors must thoroughly prepare by studying this lesson and identified reference material.

NOTE: Instructor/Facilitator will ensure to incorporate ALM2015 and OE experiences.

ARMY LEARNING MODEL

All Instructors/Facilitators will facilitate training under Army Learning Model. Ensuring training is based on quality, relevance and effectivness of face to face learning experiences through outcome-oriented instructional strategies. This type of instruction will foster critical thinking, initiative and operational relevance in context.

OE INTEGRATION

Instructors/Facilitators will facilitate conversations from students and relate this lesson to current Operational Environments (OE) using personal experiences and/or examples obtained from the Center for Army Lessons Learned (CALL). Instructors should provide sufficient OE variables and scenarios to produce the desired soldier training outcome for this lesson.

NOTE: Verify that the training material is loaded on teh computers before beginning the lesson.

Proponent Lesson Plan Approvals

Name	Rank	Position	Date
romulo.santos	Not available	Approver	06 Sep 2016

SECTION II. INTRODUCTION

Method of Instruction: Discussion (Small or Large Group)
Mode of Delivery: Resident Instruction
Instr Type (I:S Ratio): Military - ICH, (1:30)
Time of Instruction: 15 mins

Motivator

INSTRUCTOR NOTE: Have the students draw the M240B from the armsroom.

SLIDE 92Y10D11-1 (ON)

The Commander has designated you as his or her unit armorer, responsible for the unit maintenance of small arms. As a unit armorer, you will prepare, maintain, submit, and file all maintenance requirements for the unit's organizational weapons. You must have the skill set and the ability to perform all unit maintenance tasks. The unit armorer is an important job and requires attention to detail. If the M240B Machine Gun is not maintained to proper standards, the weapon may not operate, unit readiness will be degraded, and your unit may not be prepared to perform its mission.

Introduce the lesson to the students.

SLIDE 92Y10D11-1 (OFF)
SLIDE 92Y10D11-2 (ON)

INSTRUCTOR NOTE: Discuss the Terminal Learning Objective with the students.

SLIDE 92Y10D11-2 (OFF)

Terminal Learning Objective

NOTE. Inform the students of the following Terminal Learning Objective requirements.

At the completion of this lesson, you [the student] will:

Action:	Perform Preventive Maintenance on the Machine Gun 7.62mm M240B with Equipment.
Conditions:	In a classroom environment, given the requirement to perform preventive maintenance on the M240B Machine Gun. Given TM 9-1005-313-10, TM 9-1005-313-23&P, DA Pamphlet 750-8, a DA Form 5988-E, DA Form 5990-E, armorer tool kit, safety equipment, M240B Machine Gun, and linked dummy rounds.
Standards:	The student will perform preventive maintenance on the M240B Machine Gun in accordance with TM 9-1005-313-10, TM 9-1005-313-23&P, and DA Pamphlet 750-8 finding all deficiencies without losing accountability.
Learning Domain - Level:	None assigned
No JPME Learning Areas Supported:	None

Safety Requirements

General classroom, weapon, and electrical safety procedures will be followed.

Before starting an inspection and/or performing any maintenance procedures, be sure to clear the weapon. During the clearing procedure always keep the weapon pointed in a safe direction.

A potential safety hazard exists if the weapon is assembled or disassembled incorrectly.

Students will ensure that safety glasses are worn at all times during the assembly and disassembly of the weapon.

Risk Assessment Level

Low - Rod Assembly Driving Spring

Assessment: During disassembly/assembly if not removed properly, the rod assembly driving spring can expel suddenly causing injury.

Controls: Additional instruction and supervision: Primary/Assistant instructor should ensure all bolts are in the forward position.

Additional instruction and supervision: Apply resistance to the rod assembly drive spring while removing and installing.

Wear safety glasses.

Leader Actions: Primary Instructor will utilize "stop-go" method when training. Students will not proceed until told to do so. Instructor will spot check each weapon.

When possible, additional instructor(s) qualified on weapons will assist primary instructor during the block of instruction.

Continually emphasize safety. Let students know what the outcome will be if procedures are not followed exactly as described.

Environmental Considerations

NOTE: Instructor should conduct a risk assessment to include environmental considerations IAW the current environmental considerations publication, and ensure students are briefed on hazards and control measures..

NOTE: It is the responsibility of all Soldiers, DA Civilians, and Contractors to protect the environment from damage.

NOTE: Have dirty rags turned in to the supply room and cleaned on a weekly basis.

Instructional Lead-in

Explain to the student that performing unit maintenance on small arms is similar to performing maintenance on a car. It is important to keep your car in good running condition so you can get back and forth to work. In the U.S. Army, weapons must be maintained to specified standards so the unit can successfully perform its mission.

SECTION III. PRESENTATION

TLO - LSA 1. Learning Step / Activity TLO - LSA 1. Identify the Characteristics, Capabilities and Features, and Major Components of the M240B.

Method of Instruction:	Discussion (Small or Large Group)
Mode of Delivery:	Resident Instruction
Instr Type (I:S Ratio):	Military - ICH, (1:10)*
Time of Instruction:	15 mins
Media Type:	Actual Equipment
Other Media:	Unassigned
Security Classification:	This course/lesson will present information that has a Security Classification of: U - Unclassified.
Note: Marked as (*) is	derived from the parent learning object

SLIDE 92Y10D11-3 (ON) Click on picture to listen to the characteristics of the M240B.

INSTRUCTOR NOTE: Refer students to TM 9-1005-313-10, WP 0007 00-1

a. Equipment Characteristics: The M240B is designed as a tripod mounted or bipod supported machine gun for use by ground forces. The bipod is integrated into the receiver assembly of the weapon. The M240B has a forward rail for accessory mounting.

b. Capabilities and Features:

1) The M240 Series Machine Gun is gas-operated and fires from the open bolt position. The 7.62mm is the authorized round for the machine gun.

2) The M240B has a buttstock and hydraulic buffer assembly and can be mounted on the M122A1Tripod or M192 Lightweight Tripod.

c. Location and Description of Major Components.

1) Barrel Assembly-Houses cartridge for firing and directs projectile.

2) Buffer Assembly/Buffer and Spade Grip Assembly/Buttstock and Buffer Assembly-Absorbs recoil for bolt and operating rod assembly at the end of recoil movement. the spade grip assembly initiates firing for the M240D/M240E1/M240H models.

3) Driving Spring Rod Assembly-Provides energy for returning bolt and operating rod assembly to firing position.

4) Bolt and Operating Rod Assembly-Provides feeding, striping, chambering, firing, extraction, and ejection of cartridges using the projectile propelling gases for power.

5) Trigger Housing Assembly-Controls the firing of the machine gun.

6) Cover Assembly-Feeds linked belt, positions and holds cartridges in position for stripping, feeding and chambering. Cover has integral sight mounting rail for current/future accessories (all models except M240C).

7) Feed Tray-Services as a guide for positioning cartridges to assist in chambering.

8) Receiver Assembly-Serves as a support of all major components. the receiver houses action of weapon, and controls functioning of weapon through a series of cam ways. receiver has a forward integral mounting rail for current/future accessories

(M240B/M240H).

Check on Learning: Determine if the students have learned the material presented by soliciting student questions and explanations. Ask the students questions and correct misunderstandings.

Review Summary: Conduct a Review/Summary of the information presented in the Learning Step.

TLO - LSA 2. Learning Step / Activity TLO - LSA 2. Unload and Clear the M240B Machine Gun.

Method of Instruction:	Demonstration
Mode of Delivery:	Resident Instruction
Instr Type (I:S Ratio):	Military - ICH, (1:10)*
Time of Instruction:	20 mins
Media Type:	Actual Equipment
Other Media:	Unassigned
Security Classification:	This course/lesson will present information that has a Security Classification of: U - Unclassified.
Note: Marked as (*) is	derived from the parent learning object

SLIDE 92Y10D11-4 (ON) Click on picture to begin video, be prepared to pause video at 0:56.

INSTRUCTOR NOTE: Refer students to TM 9-1005-313-10, WP 0010 00-1.

a. Clear the M240B Machine Gun.

WARNING: Under no circumstances should the safety be engaged with the bolt in the forward position. Always ensure the safety is in the fire position before charging the weapon; otherwise, the weapon will become jammed when charged with the safety in the safe position.

1) Place safety to "F" fire before actuating the bolt/operating rod assembly.

2) Pull cocking handle assembly (or charger cable) fully to rear, and ensure bolt locks completely to rear. Return cocking handle assembly to fully forward and locked position.

3) Place safety to "S" safe.

4) Push in latches to open cover assembly.

5) Remove ammunition belt.

6) Raise feed tray. Look into chamber to make sure it is empty. If a round is still in the chamber, refer to ruptured/stuck cartridge case or live round procedures.

7) Lower feed tray.

8) Place safety to "F" fire.

9) Pull and hold cocking handle assembly (or charging cable) to rear while fully depressing the trigger while easing the bolt forward to close and lock. Release the trigger. Safety must not be able to be moved to the safe position.

10) Close cover assembly. Make sure it locks shut.

NOTE: Be sure bolt is forward with safety in "F" fire when gun is not in use.

Check on Learning: Determine if the students have learned the material presented by soliciting student questions and explanations. Ask the students questions and correct misunderstandings.

Review Summary: Conduct a Review/Summary of the information presented in the Learning Step.

TLO - LSA 3. Learning Step / Activity TLO - LSA 3. Disassemble and Troubleshoot the M240B Machine Gun.

Method of Instruction:	Demonstration
Mode of Delivery:	Resident Instruction
Instr Type (I:S Ratio):	Military - ICH, (1:10)*
Time of Instruction:	1 hr 30 mins
Media Type:	Actual Equipment
Other Media:	Unassigned
Security Classification:	This course/lesson will present information that has a Security Classification of: U - Unclassified.
Note: Marked as (*) is	derived from the parent learning object

INSTRUCTOR NOTE: Click the video to continue viewing the video on disassembly of the M240B.

INSTRUCTOR NOTE: Refer students to TM 9-1005-313-10, WP 0021 00-1.

a. Disassemble the M240B Machine Gun.

1) Clear your machine gun.

2) Depress barrel locking latch and hold.

3) Turn barrel release/carrying handle to upright position.

4) Remove barrel. Push forward and lift out barrel.

5) Remove heat shield assembly from barrel. Lift rear of heat shield assembly off barrel then pry front tabs out of holes on gas hole bushing.

6) Depress spring and remove spring pin. (This can usually be done without tools).

7) Pull trigger housing down and back.

8) Depress back plate latch and lift buffer/buttstock and buffer assembly/buffer and spade grip assembly straight up.

9) Depress driving spring in, up, and out.

10) If a flat surface is available, collapse the bipod legs.

WARNING: Protect hands/fingers when raising cover. Injury could result

11) Depress cover latches and raise cover assembly to first latching position. Pull cocking handle assembly back; then pull bolt and operating rod assembly out.

CAUTION: Do not hit the cover pin with the back of the buffer or the pin will be damaged.

12) Push out spring pin as far as possible with the back of buffer. Then remove pin with fingers. Lift upward and remove cover assembly. Remove feed tray

13) Extend bipod legs to down and locked position.

SLIDE 92Y10D11-4 (OFF)

SLIDE 92Y10D11-5 (ON) Click on picture to begin video. Discuss the cycle of function as the video plays.

b. Troubleshoot the M240B Machine Gun.

INSTRUCTOR NOTE: Refer students to TM 9-1005-313-23&P, WP 0004 00-1. Instructor can select troubleshooting procedures and walk students through the symptom, malfunction and corrective action.

SLIDE 92Y10D11-5 (OFF)

Check on Learning:	Determine if the students have learned the material presented by soliciting student questions and explanations. Ask the students questions and correct misunderstandings.
Review Summary:	Conduct a Review/Summary of the information presented in the Learning Step.

TLO - LSA 4. Learning Step / Activity TLO - LSA 4. Reassemble the M240B Machine Gun.

Method of Instruction:	Demonstration
Mode of Delivery:	Resident Instruction
Instr Type (I:S Ratio):	Military - ICH, (1:10)*
Time of Instruction:	40 mins
Media Type:	Actual Equipment
Other Media:	Unassigned
Security Classification:	This course/lesson will present information that has a Security Classification of: U - Unclassified.
Note: Marked as (*) is	derived from the parent learning object

SLIDE 92Y10D11-6 (ON) Click on picture to begin video, be prepared to pause video at 3:30.

a. Reassemble the M240B Machine gun

INSTRUCTOR NOTE: Refer students to TM 9-1005-313-10, WP 0023 00-1.

1) Position feed tray and cover assembly on receiver; push cover assembly forward; close cover and insert spring pin.

NOTE: Insert spring pin from right side.

2) Open top cover assembly. Set bolt and operating rod assembly on top of rails (inside receiver). Extend bolt to unlocked position; push the assembly all the way into the receiver. Close cover assembly and lock.

WARNING: Eye protection is required when assembling springs and operating rods.

3) Insert driving spring into operating rod assembly. Push it in fully and lower it to seat the stud in hole of receiver.

NOTE: Be sure operating rod assembly is properly seated in receiver before operating weapon. Top of buffer/buffer and spade grip/buttstock should be flush with top of receiver.

4) Install buffer assembly/buffer or spade grip assembly/buttstock and buffer assembly and make sure it latches.

NOTE: Pin must be inserted from right side only.

5) Place trigger housing safety in fire "F" position; position front of housing assembly into place and pivot into position.

WARNING: Before firing, make sure the barrel is locked tightly in receiver. If the barrel is not locked tight, threads in receiver could be damaged or cause personal injury.

NOTE: Barrel must be in upright position when installing barrel.

6) Insert barrel fully into socket and push barrel release/barrel carrying handle clockwise as far as it will go.

7) Release barrel release/barrel carrying handle and return to upright position. Push barrel release/barrel carrying handle clockwise while counting the clicks (fewer than 2 or more than 7 clicks indicate defective parts) to lock. If barrel binds in socket or if barrel release/barrel carrying handle will not rotate when pushed, do not pound on barrel release/barrel carrying handle. Take machine gun to unit maintenance.

Check on Learning:	Determine if the students have learned the material presented by soliciting student questions and explanations. Ask the students questions and correct misunderstandings.
Review Summary:	Conduct a Review/Summary of the information presented in the Learning Step.

TLO - LSA 5. Learning Step / Activity TLO - LSA 5. Perform Safety/Function Check on the M240B Machine Gun.

Method of Instruction:	Demonstration
Mode of Delivery:	Resident Instruction
Instr Type (I:S Ratio):	Military - ICH, (1:10)*
Time of Instruction:	15 mins
Media Type:	Actual Equipment
Other Media:	Unassigned
Security Classification:	This course/lesson will present information that has a Security Classification of: U - Unclassified.
Note: Marked as (*) is	derived from the parent learning object

INSTRUCTOR NOTE: Click on video pause button to continue the video.

INSTRUCTOR NOTE: Refer students to TM 9-1005-313-10, WP 0024 00-1.

a. Place safety to "F" fire.

b. Pull cocking handle completely to rear to lock bolt back.

c. Return cocking handle to forward, locked position.

d. Place safety to "S" safe position, depress trigger, nothing should happen.

e. Place safety to "F" fire.

f. Hold cocking handle assembly to rear, fully depress trigger, and ease bolt forward to close and lock.

g. Safety must not be able to be moved to the safe position.

SLIDE 92Y10D11-6 (OFF)

Check on Learning:	Determine if the students have learned the material presented by soliciting student questions and explanations. Ask the students questions and correct misunderstandings.
Review Summary:	Conduct a Review/Summary of the information presented in the Learning Step.

TLO - LSA 6. Learning Step / Activity TLO - LSA 6. Perform Maintenance on the M240B Machine Gun.

Method of Instruction:	Demonstration
Mode of Delivery:	Resident Instruction
Instr Type (I:S Ratio):	Military - ICH, (1:10)*
Time of Instruction:	1 hr
Media Type:	Actual Equipment
Other Media:	Unassigned
Security Classification:	This course/lesson will present information that has a Security Classification of: U - Unclassified.
Note: Marked as (*) is	derived from the parent learning object

SLIDE 92Y10D11-7 (ON)

INSTRUCTOR NOTE: Provide student with a blank DA Form 5988-E from the student handout.

a. Verify the administrative information on the DA Form 5988-E.

1) Verify the DODAAC is **WBAKT0**.

2) Verify the organization is **HHC, 13th Military Police Battalion**.

3) Verify ADMIN NUM and SERIAL NUMBER of the weapon.

INSTRUCTOR NOTE: Have student enter the serial number of the weapon that they are going to PMCS in the serial number .

4) Verify **M240B** is listed as the EQUIP MODEL.

5) Verify **Machine Gun, 7.62mm** is listed as the EQUIP NOUN.

6) Verify **Quarterly** is listed as the TYPE INSPECTION.

7) Verify the EQUIP NSN is **1005-01-412-3129**.

8) Verify the TMs being used.

b. Conduct Field Preventive Maintenance Checks and Services on the M240B Machine Gun.

INSTRUCTOR NOTE: Refer students to TM 9-1005-313-23&P, WP 00005 00-1.

Reveiw the general instructions for conducting the PMCS.

1) Machine Gun

a) Field strip weapon in accordance with TM 9-1005-313-10.

2) Barrel Assembly.

a) Check barrel for bulges, bends, burrs, and obstructions or pits in chambers or bore. Disassemble, inspect, clean (if necessary) and reassemble collar and plug. Make sure flash hider/suppressor is fastened securely.

b) Check for compliance with annual gaging requirements (headspace/barrel erosion). Ensure barrels are properly tagged as a set. Etching but no stamping on carrying handle is authorized.

c) Inspect front sight for looseness or any damage (bends).

NOTE: Some heat distortion, charring, and cracks may be observed on the outer non-metallic portion of the heatshield; these are not cause for replacement unless they cause edges that can cut or enough plastic is displaced so as to allow contact with metal portions.

d) Inspect carrying handle assembly for bent, broken, or missing parts. Assure heatshield is present, remains retained on barrel assembly, and is not bent, broken or missing parts.

3) Buffer Assembly/Hydraulic Buffer Assembly.

a) Buffer Assembly

(1) Check for burrs or rough edges on mating grooves and flanges. Check to make sure that back plate latch locks buffer assembly securely to receiver assembly when installed. Make sure buffer plug sticks out through back plate and is flush or higher than the protrusion below it. Make sure there is no rattling sound when buffer is shook or that the plug cannot rotate by finger pressure. Check for imprint on rear of operating rod on the buffer housing. Make sure machine plug is tight.

b) Hydraulic Buffer Assembly.

(1) Check for burrs or rough edges on mating grooves and flanges. check to make sure that back plate latch locks buffer assembly securely to receiver assembly when installed. Check buffer for leaks. Check buffer for looseness in backplate.

(2) Check buffer housing for peening, cracking or damage to include finish missing from the buffer housing stop. Check buffer shaft for bends, mushrooming, peening and cracks on the face. Check shaft for oil residue. Work the buffer assembly to check for fluid leakage. Buffer shaft should depress smoothly without chatter and return promptly when released.

c) Buttstock and Buffer Assembly.

(1) Inspect buttstock for cracks. Check to make sure backplate latch locks securely to receiver assembly when installed. check buttstock for looseness on buffer housing.

(2) Ensure buffer block is firmly attached to buttstock.

NOTE: Cracks may be observed on the outer non-metallic portions of the buttstock. These are not a cause for a replacement unless they cause edges that can cut or enough plastic is displaced so as to allow contact with skin.

4) Driving Spring Rod Assembly.

a) Check spring for broken strands. Replace spring rod assembly if two strands are broken on the same coil or three or more strands are broken, regardless of location, on the same spring. Make sure driving spring rod assembly is not bent.

5) Bolt and Operating Rod Assembly

a) Remove pin and bolt assembly from operating rod assembly. check firing pin to make sure it is straight and has a smooth, round tip. Make sure ball end is installed between spring pin and bottom of groove. Clean and remove carbon, if necessary. Visually inspect bolt for cracks. check roller for spring action and freedom of movement. Reassemble pin and bolt assembly to operating rod assembly.

NOTE: Always turn in both barrels with the weapon if turned in with bolt assembly problems.

6) Trigger Spring Pin and Cover Hinge Spring Pin.

a) Inspect trigger spring pin and cover hinge spring pin for bends, and for missing springs. Replace pins if they are bent or if the spring pins are missing.

7) Trigger Housing Assembly.

a) Inspect tripping leaver and sear for burrs on edges or shoulders. Push back on tripping lever to raise sear. Place safety to safe "S". Pull trigger. Sear should not drop down far enough to lock in downward position. Place safety to fire "F". Pull trigger. Sear should drop down and lock in the downward position. Check for cracked grips. Check sear spring to maske sure the leg of the sear spring is behind trigger pin and not between the trigger and the pin.

b) Check grip assembly for loose or missing grip screws. Check trigger guard for bends or cracks.

8) Cover Assembly.

a) Check cover assembly for cracks or distortion. Pivot feed lever back and forth to make sure the feed mechanism operates smoothly without binding. Push in on cover latches to make sure retaining clip is not weak or missing and cover latches do not bind in the housing. Push down on cartridge guides and feed pawls to make sure springs are not weak or missing. Inspect accessory mounting rail for nicks or burrs. Top cover should be able to hold up it's own weight without added weight.

b) Cover should be able to hold it's own weight without falling.

INSTRUCTOR NOTE: Inform students that during the check of the M240B Cover Assembly it was discovered that it was bent. You should stop and enter the deficiency on the DA Form 5988-E.

9) Annotate the deficiency on the DA Form 5988-E.

a) Enter [**9**] in the ITEM NUM column. Number is the item number from the TM.

b) Enter [**22 April 20XX]** in the FAULT DATE column as the date of the PMCS.

c) Enter [**X**] as the FAULT STATUS. The X should be circled as the deficiency is listed in the NOT FULLY MISSION CAPABLE IF column of the TM.

d) Enter [**Cover Assy is bent**] in the FAULT DESCRIPTION column.

INSTRUCTOR NOTE: Have students refer to TM 9-1005-313-23&P, WP 0042 to determine the level of support required.

e) Enter in [**DA Form 5990-E (SPT MNT)**] in the CORRECTIVE ACTION column.

f) Have student enter their INSPECTORS LIC# (First initial of last name and Last 4 of SSN).

INSTRUCTOR NOTE: After filling out the information for the deficieincy, complete the PMCS.

10) Feed Tray.

a) Check feed tray for cracks, deformation, broken welds, and loose rivets.

11) Receiver Assembly

a) Check receiver for loose (finger tight) or missing rivets.

b) Check that rear sight assembly is securely mounted to receiver assembly and operates properly.

c) Check that manual control handle operates slide properly.

d) Check for damaged or missing ejection port cover, spring and pin.

e) Push in on barrel locking latch to make sure the latch spring is not missing or weak.

f) Check to make sure access cover is in place in the bottom of the receiver.

g) Repair or replace all damaged authorized parts.

12) Receiver Assembly with Forward Rail.

a) Check assembly for cracks; broken, loose, or missing parts.

13) Bipod Assembly.

a) Check bipod legs for cracks, twisted or incomplete assembly.

14) Machine Gun

a) Assemble weapon in accordance with TM 9-1005-313-10.

b) Be sure parts are installed correctly and are in good working condition.

c) When installing the barrel assembly in the receiver, rotate the barrel release latch/carrying handle assembly clockwise until it stops. Unlock and rotate counte-clockwise completely. While rotating clockwise, count the number of clicks until it stops. Fewer than 2 or more than 7 clicks indicate defective parts. (Make this check with spare barrel also.)

d) Check weapon functioning with belted dummy ammo.

e) Initial gaging is required 1 year from receipt of new or overhauled weapons. Ensure that machine gun has been inspected/gaged within the last year. For Army Reserve and National Guard weapons, the period is 2 years unless inspection shows need for gaging more often due to usage or other factors.

SLIDE 92Y10D11-7 (OFF)

Check on Learning: Determine if the students have learned the material presented by soliciting student questions and explanations. Ask the students questions and correct misunderstandings.

Review Summary: Conduct a Review/Summary of the information presented in the Learning Step.

TLO - LSA 7. Learning Step / Activity TLO - LSA 7. Verify the DA Form 5990-E on the M240B Machine Gun.

Method of Instruction:	Demonstration
Mode of Delivery:	Resident Instruction
Instr Type (I:S Ratio):	Military - ICH, (1:10)*
Time of Instruction:	5 mins
Media Type:	PowerPoint Presentation
Other Media:	Unassigned
Security Classification:	This course/lesson will present information that has a Security Classification of: U - Unclassified.
Note: Marked as (*) is	derived from the parent learning object

SLIDE 92Y10D011-8 (ON)

a. Now that a fault that requires a higher level of maintenance is identified, the DA Form 5990-E, Maintenance Request Form, must be prepared. The SAMS-E operator will take the required information from the DA Form 5988-E or DA Form 2404. You will need to verify the information is accurate before taking the DA Form 5990-E and the weapon to the next level of maintenance for repair.

INSTRUCTOR NOTE: Remind students that a manual form DA 2407 can also be used as a Maintenance Request Form.

SECTION I - CUSTOMER DATA

1) Verify **WBAKT0** is entered as the UIC.

2) Verify **HHC, 13th MP BN** is entered as the unit.

3) Verify **(804) 765-8591** is entered as the phone number.

4) Verify **0** is entered as the UTIL CODE. Refer to DA Pam 750-8, App B, Table B-6 for applicable utilization codes.

SECTION II - ACTIVITY DATA

5) Verify the support agency information is accurate.

SECTION III - EQUIPMENT DATA

6) Verify **1** is entered in the TYPE MNT REQ location. Refer to DA Pam 750-8, App B, Table B-20 for available codes.

7) Verify **A** is entered in the ID location.

8) Verify **1005014123129** is entered in the NSN location.

9) Verify **M240B** is entered in the MODEL location.

10) Verify **Machine Gun 7.62mm** is entered in the NOUN location.

11) Verify the serial number matches the serial number on the DA Form 5988-E.

12) Verify **00001** is entered as the QTY.

13) Verify a work order number is entered. This number will be generated by the

SAMS-E System.

14) Verify **05** is entered as the PRIORITY.

15) Verify **A** is entered in the FAILURE DETECTED location. Refer to DA Pam 750-8, App B, Table B-3 for available codes.

16) Verify **F** is entered as the LEVEL OF WORK.

17) Verify ADMIN NUM is entered.

18) Verify **Cover Assembly Bent** is entered as the deficiency. The deficiency should match the deficiency listed on the DA Form 5988-E/DA Form 2404.

19) Obtain signature in the PD AUTHENTICATING SIGNATURE if required. Signature of commander or commander's designated representative is required for all 01 through 10 Priority requests.

SECTION IV - SIGNATURE DATA - Can be completed when weapon is turned in at support maintenance for repair.

b. Attach DA Form 2404/DA Form 5988-E to the DA Form 5990-E.

c. Submit all copies of the Maintenance Request Form to Support Maintenance with the weapons.

SLIDE 92Y10D011-8 (OFF)

Check on Learning:	Determine if the students have learned the material presented by soliciting student questions and explanations. Ask the students questions and correct misunderstandings.
Review Summary:	Conduct a Review/Summary of the information presented in the Learning Step.

TLO - LSA 8. Learning Step / Activity TLO - LSA 8. Practical Exercise-Perform Maintenance on the Machine Gun 7.62mm, M240B.

Method of Instruction:	Practical Exercise (Hands-On/Written)
Mode of Delivery:	Resident Instruction
Instr Type (I:S Ratio):	Military - ICH, (1:10)*
Time of Instruction:	1 hr 30 mins
Media Type:	Actual Equipment / Practical Exercise
Other Media:	Unassigned
Security Classification:	This course/lesson will present information that has a Security Classification of: U - Unclassified.
Note: Marked as (*) is	derived from the parent learning object

Complete the practical exercise included with this lesson.

a. Give the students time to complete the practical exercise for this lesson.

b. Assist the students as needed during the practical exercise to ensure material is understood.

c. Review the practical exercise with the students and answer any questions the students may have.

Check on Learning:	Determine if the students have learned the material

presented by soliciting student questions and explanations. Ask the students questions and correct misunderstandings.

Review Summary:

Review the practical exercise with the students. Review the questions and clear up any misunderstandings that the students may have.

TLO - LSA 9. Learning Step / Activity TLO - LSA 9. Conduct a Performance Exam on the Machine Gun, 7.62mm, M240B.

Method of Instruction:	Hardware-Oriented Test
Mode of Delivery:	Resident Instruction
Instr Type (I:S Ratio):	Military - ICH, (1:10)*
Time of Instruction:	1 hr 15 mins
Media Type:	Actual Equipment
Other Media:	Unassigned
Security Classification:	This course/lesson will present information that has a Security Classification of: U - Unclassified.
Note: Marked as (*) is	derived from the parent learning object

The Soldier will complete a hands on performance based examination covering conducting maintenance on the Machine Gun, 7.62mm, M240B. Field maintenance will include the clearing, disassembly, conducting preventive maintence checks and services (PMCS), assembly, and function check of the M240B Machine Gun.

Check on Learning:

Determine if the students have learned the material presented by soliciting student questions and explanations. Ask the students questions and correct misunderstandings.

Review Summary:

Review the practical exercise with the students. Review the questions and clear up any misunderstandings that the students may have.

SECTION IV. SUMMARY

Method of Instruction:	Reflective Discussion
Mode of Delivery:	Resident Instruction
Instr Type(I:S Ratio):	Military - ICH, (1:30)
Time of Instruction:	15 mins

Check on Learning

Determine if the students have learned the material presented by soliciting student questions and explanations. Ask the students questions and correct misunderstandings.

Question: What assembly provides feeding, stripping, chambering, firing, extraction, and ejection of cartridges using the projectile propelling gases for power?
Answer: The bolt and operating rod assembly.

Question: What is the first step in clearing the machine gun M240B IAW TM 9-1005-313-10?
Answer: Place safety on ”F“.

Question: What action is required if you see rust or other signs of wear on a weapon?
Answer: PMCS should be done immediately.

Question: Which side of the weapons should the insert spring pin be entered?
Answer: Insert spring pin from the right side.

Question: When installing the barrel, what is the position of the barrel release?
Answer: The barrel release must be in the upright position.

Review/ Summary

SLIDE 92Y10D11-9 (ON)

During this lesson we covered the following areas-

a) Identify the Characteristics, Capabilities and Features, and Major Components of the M240B Machine Gun.
b) Unload and Clear the M240B Machine Gun.
c) Disassemble and Troubleshoot the M240B Machine Gun.
d) Reassemble the M240B Machine Gun.
e) Perform Safety/Function Check on the M240B Machine Gun.
f) Perform Maintenance on the M240B Machine Gun.
g) Complete the DA Form 5988-E on the M240B Machine Gun.
h) Verify the DA Form 5990-E on the M240B Machine Gun.

SLIDE 92Y10D11-9 (OFF)

SECTION V. STUDENT EVALUATION

Testing Requirements

The soldier will complete hands on performance based examination covering the materials presented in this lesson. The exam will be graded on a GO/NO-GO basis. Student must receive a GO to be considered successful.

Feedback Requirements

NOTE: Feedback is essential to improving training, always encourage students to provide comments and ensure to complete the Module AAR.

NOTE: Review the completed practical exercise with the students. Ensure lesson is understood by asking questions and receiving feedback from the students. Clear up any misunderstandings.

Appendix A - Viewgraph Masters

Perform Maintenance on the Machine Gun 7.62mm M240B with Equipment 101-92Y10D11 / Version 05.0 ©

Sequence	Media Name	Media Type
1	92Y10D11 Ver3 Classroom Presentation	PPTX
2	M240B Intro	MP3
3	M240B Disassembly	MP3
4	M240B Reassembly	MP3

Appendix B - Assessment Statement and Assessment Plan

Assessment Statement: None.

Assessment Plan: None.

PRACTICAL EXERCISE(S)/SOLUTION(S) FOR LESSON 101-92Y10D11 Version 05.0 ©

Appendix D - Student Handouts

Perform Maintenance on the Machine Gun 7.62mm M240B with Equipment 101-92Y10D11 / Version 05.0 ©

Sequence	Media Name	Media Type
10	92Y10D11 Ver3 Student Handout	DOCX
20	92Y10D11 Ver3 Practical Exercise	DOCX
21	92Y10D11 Ver3 Practical Exercise Solution	DOCX